



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1460  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/063,933	05/28/2002	Takayuki Sato	AT-0024US	7803
23419	7590	03/21/2006	EXAMINER	
COOLEY GODWARD, LLP 3000 EL CAMINO REAL 5 PALO ALTO SQUARE PALO ALTO, CA 94306			LAFORGIA, CHRISTIAN A	
			ART UNIT	PAPER NUMBER
			2131	

DATE MAILED: 03/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/063,933	SATO, TAKAYUKI	
	Examiner	Art Unit	
	Christian La Forgia	2131	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 03 August 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 May 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

### DETAILED ACTION

1. Claims 1-15 have been presented for examination.

#### *Claim Rejections - 35 USC § 102*

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 4, 5, 7, 9-13, and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 6,005,939 to Fortenberry et al., hereinafter Fortenberry.

4. As per claim 1, Fortenberry discloses communication system that connects a first network and a second network for communication thereof, comprising:

a first interconnecting device connected to a first communication device of said first network (Figure 2a [blocks 204, 206a, 206n], column 5, lines 41-54, i.e. ISP or firewall);

a second interconnecting device, connected to said first interconnecting device and a second communication device of said second network, operable to control whether or not communication between said first and second communication devices is allowed (Figure 2a [blocks 204, 206a, 206n], column 5, lines 41-54, i.e. firewall acts as a gatekeeper); and

an external recording device connecting to said first interconnecting device and operable to store authentication information of a user of said first communication device, said authentication information being used for authentication of the user by said second interconnecting device (Figures 2a [blocks 212, 214, 216], 2b; column 5, line 62 to column 6, line 46), wherein said first interconnecting device comprises:

an acquiring unit operable to acquire said authentication information of the user of said first communication device from said external recording device (Figure 4, column 7, line 34 to column 8, line 15); and

a transmit unit operable to transmit said authentication information acquired by said acquiring unit to said second interconnecting device (column 7, line 34 to column 8, line 15).

5. As per claims 4 and 13, Fortenberry discloses an interconnecting device for connecting a first network and a second network to enable communication between a first communication device of said first network and a second communication device of said second network, the interconnecting device comprising:

an acquiring unit operable to acquire from a recording device, which is outside said interconnecting device, authentication information of a user of said first communication device for authentication of the user, by an authentication apparatus, for controlling whether or not communication between said first and second communication devices is allowed (Figure 4, column 7, line 34 to column 8, line 15); and

a transmit unit connecting to said acquiring unit and operable to transmit said authentication information received by said acquiring unit to said authentication apparatus (column 7, line 34 to column 8, line 15).

6. Regarding claim 5, Fortenberry teaches wherein said acquiring unit comprises a reading unit operable to read said authentication information from a non-volatile memory that comprises said recording device storing said authentication information (Figures 1 [blocks 115, 142, 147, 152], 2 [block 214]; column 3, lines 6-14, column 5, line 62 to column 6, line 8).

7. Regarding claim 7, Fortenberry discloses wherein said acquiring unit further acquires identification information of said authentication apparatus from said recording device, and said transmit unit transmits said authentication information acquired by said acquiring unit to said authentication apparatus identified by said identification information acquired by said acquiring unit (column 1, lines 51-65; column 7, lines 33-67).

8. Regarding claims 9 and 15, Fortenberry discloses a decryption unit connecting to said acquiring unit and operable to decrypt encrypted authentication information in a case where said acquiring unit acquired said authentication information after encryption (column 6, lines 15-24; column 6, lines 52-63).

9. Regarding claims 10-12, Fortenberry discloses a processing unit connecting to said transmit unit and operable to determine whether or not said authentication apparatus is allowed to authenticate the user, wherein said transmit unit transmits said authentication information acquired by said acquiring unit to said authentication apparatus in a case where said processing unit determined that said authentication apparatus is allowed to authenticate the user (column 6, lines 7-14, column 8, lines 7-14).

***Claim Rejections - 35 USC § 103***

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

Art Unit: 2131

having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

11. Claims 2, 3, 6, 8, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fortenberry in view of U.S. Patent No. 6,934,745 to Krautkremer, hereinafter Krautkremer.

12. Regarding claims 2, 3, 8, and 14, Fortenberry does not teach wherein said second interconnecting device includes a receive unit operable to receive said authentication information from said first interconnecting device; an authentication unit connecting to said receive unit and operable to authenticate said authentication information received by said receive unit; and a setting unit connecting to said authentication unit and operable to set said second interconnecting device to allow the communication between said first and second communication devices in a case where the authentication by said authentication unit was successful; wherein said acquiring unit of said first interconnecting device is further operable to acquire bandwidth information from said external recording device; said transmit unit of said first interconnecting device is further operable to transmit said bandwidth information acquired by said acquiring unit to said second interconnecting device; said receive unit of said second interconnecting device is further operable to receive said bandwidth information from said first interconnecting device; and said setting unit of said second interconnecting device is further operable to set a bandwidth of the communication between said first and second communication devices based on said bandwidth information received by said receive unit.

13. Krautkremer discloses wherein said second interconnecting device includes a receive unit operable to receive said authentication information from said first interconnecting device; an authentication unit connecting to said receive unit and operable to authenticate said

Art Unit: 2131

authentication information received by said receive unit (column 6, lines 3-30, column 7, lines 13-23, column 10, line 63 to column 11, line 28); and

a setting unit connecting to said authentication unit and operable to set said second interconnecting device to allow the communication between said first and second communication devices in a case where the authentication by said authentication unit was successful; wherein said acquiring unit of said first interconnecting device is further operable to acquire bandwidth information from said external recording device; said transmit unit of said first interconnecting device is further operable to transmit said bandwidth information acquired by said acquiring unit to said second interconnecting device; said receive unit of said second interconnecting device is further operable to receive said bandwidth information from said first interconnecting device; and said setting unit of said second interconnecting device is further operable to set a bandwidth of the communication between said first and second communication devices based on said bandwidth information received by said receive unit (Figures 1 [blocks 50, 61, 62], 2, 3, 4 [blocks 50, 61, 62], 5 [blocks 50, 61, 62], column 4, line 12 to column 5, line 23, column 10, lines 28-60).

14. It would have been obvious to one of ordinary skill in the art at the time the invention was made to receive the client authentication data and configure the bandwidth for the connection between the two devices that are communicating, since Krautkremer states at column 2, line 56 to column 3, line 10 that such a modification would offer real-time monitoring, measurement and control of performance over the network. It would also allow providers to configure and maintain the network for a central location.

Art Unit: 2131

15. Regarding claim 6, Fortenberry does not teach wherein said acquiring unit includes a receive unit operable to perform wireless communication with a wireless communication device that comprises said recording device storing said authentication information, and to receive said authentication information from said wireless communication device by the wireless communication.

16. Krautkremer discloses wherein said acquiring unit includes a receive unit operable to perform wireless communication with a wireless communication device that comprises said recording device storing said authentication information, and to receive said authentication information from said wireless communication device by the wireless communication (column 36-48).

17. It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate wireless communications, since Krautkremer states at column 2, line 56 to column 3, line 10 that such a modification would offer a solution to circumvent traffic over hardwired lines of communication. It has also been held that it only requires routine skill in the art to make a device portable; see MPEP 2144.04; see also *In re Lindberg*, 194 F.2d 732, 735, 93 USPQ 23, 26 (CCPA 1952).

### ***Conclusion***

18. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

19. The following patents are cited to further show the state of the art with respect to interconnecting devices, such as:



United States Patent No. 6,772,332 to Boebert et al., which is cited to show providing secure internetwork services via an assured pipeline.

United States Patent No. 5,864,683 to Boebert et al., which is cited to show providing secure internetwork services via an assured pipeline.

United States Patent No. 6,205,479 to Dulai et al., which is cited to show two-tier authentication system where clients first authenticate with independent service providers.

United States Patent Application Publication No. 2003/0140131 to Chandrashekhar et al., which is cited to show dynamically managing IP VPNs and controlling subscriber access.

United States Patent Application Publication No. 2003/0041091 to Cheline et al., which is cited to show domain name system resolution.

20. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christian La Forgia whose telephone number is (571) 272-3792. The examiner can normally be reached on Monday thru Thursday 7-5.

21. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

22. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 10/063,933

Page 9

Art Unit: 2131

Christian LaForgia

Patent Examiner

Art Unit 2131

clf

CHRISTOPHER REVAH  
PRIMARY EXAMINER

02 3/18/00